

NAWS – China Lake



Working with the Local Utility

History of SCE's UESC Program

Background

- Edison developed Energy Related Services (ERS) to assist Federal customers in identifying and implementing energy efficiency and renewable energy projects at government owned and/or managed facilities within Southern California Edison service territory
- Established in 1998 under Advice Filing 1358-E
- Approved by the California Public Utilities Commission (CPUC) January 1999.

- ERS was developed at the request of SCE's federal customers after the closure of the ENVEST pilot in 1998.
 - ERS fit in with the federal government energy mandates
 - Makes working with utilities easier to meet these mandates.
 - ERS can leverage the knowledge and purchasing power of the utility to benefit federal customers, i.e., Navy, Marines, etc.
- ERS is prepared to strategize and discuss energy conservation opportunities for federal customers
 - On site Alternative Energy: Wind, PV, others
 - Feasibility Analysis of all Energy Systems
 - Strategic Energy Efficiency Efforts

- ERS total China Lake project value in 2003 was approximately \$300,000
- Grown to \$10,000,000 total project value in 2009
- These numbers represent the gross revenue of the projects paid for by customers.
- 20 projects completed or implemented between 2003 to 2009
- Federal customers taking advantage of ERS services have expressed a very high level of customer satisfaction
- The program has received numerous awards from the federal government.

- The following table highlights the energy savings results that directly map into our programs.
- DSM Portfolio Results

	kWh	kW
2003	N/A	N/A
2004	2,476,000(identified)	286 (identified)
2005	272,368	90
2006	870,835	105
2007	1,972,312	217
2008	2,599,203	384
2009	876,945	93

 The following table highlights renewable generation projects and associated kW.

	Renewable projects (kW)	
2003	N/A	
2004	N/A	
2005	N/A	
2006	32	
2007	63	
2008	82	
2009	125	

Please note results are based upon Federal Fiscal year – October 1st – September 30th.

China Lake Projects

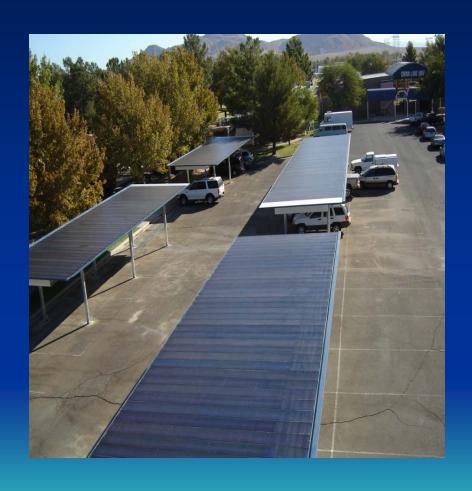
- 2008 Renewable Solar Carports
 - 25kW Solar P√
 - Annual generation: 37, 280 kWh
 - Rated generation capacity: 21.24 kW
 - Measure Cost: \$342,150
 - SCE Incentive: \$48,843
 - 45kW Solar P.
 - Annual generation: 69,723 kWh
 - Rated generation capacity: 40,58 kW
 - Measure Cost: \$439,143
 - SCE Incentive: \$94,930

China Lake Projects (cont.)

- 67kW Solar PV
 - Annual generation: 98,560 kWh
 - Rated generation capacity: 60.52 kW
 - Measure Cost: \$665,998
 - SCE Incentive: \$152,878
- Projects are all connected to one meter and therefore share the same annual site kWh consumption and kW demand

China Lake PV ERS Projects

Total Measure Cost	\$1,437,290
Total SCE Incentive	\$296,651
Annual kWh Generation	205,491
Peak Generation	
Capacity (kW)	122
Annual Site kWh	
Consumption	95,668,956
Annual Site kW	
Demand	19,872



View of Carports

View of Carports



Questions?